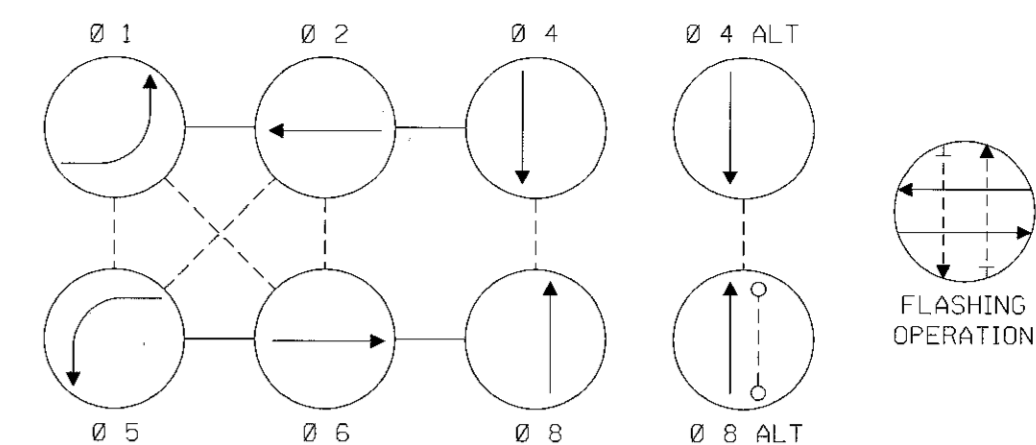
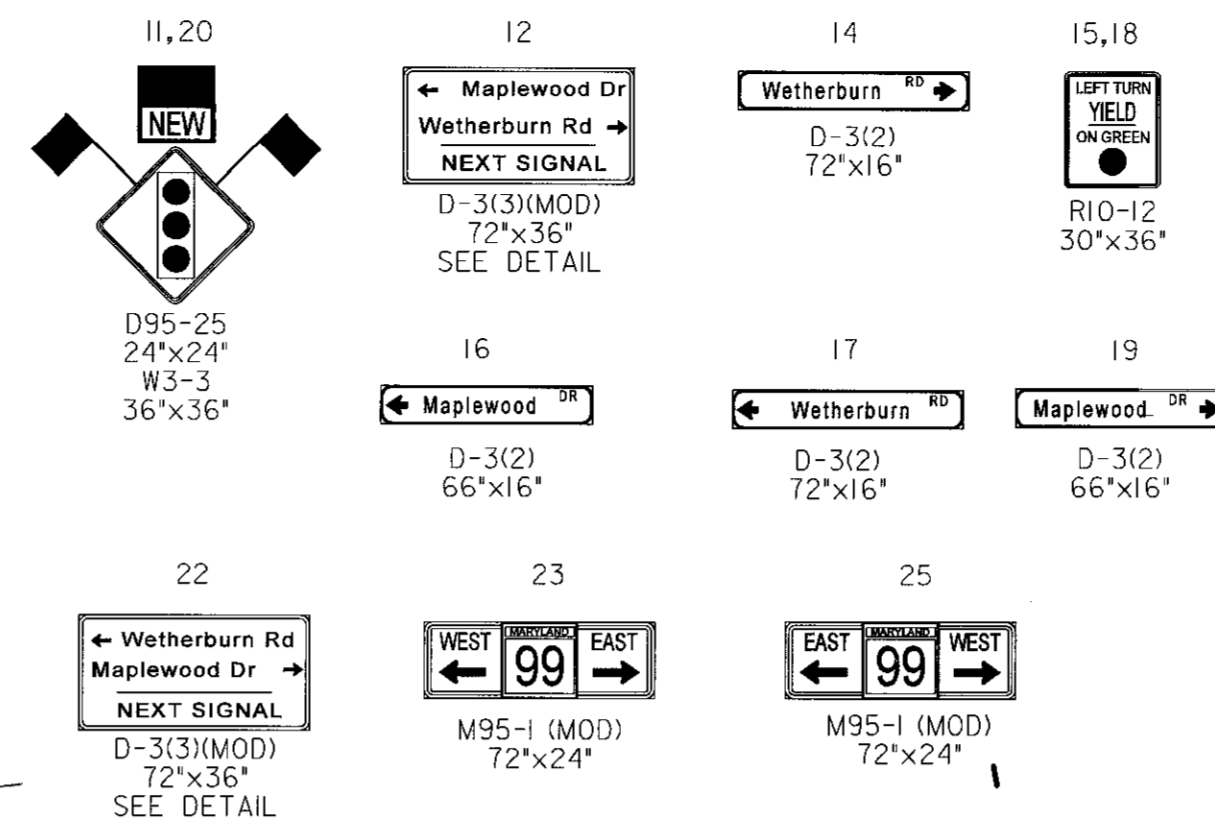
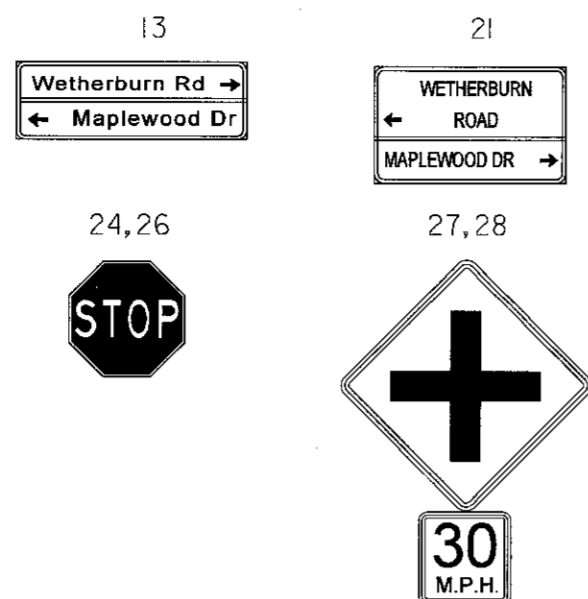
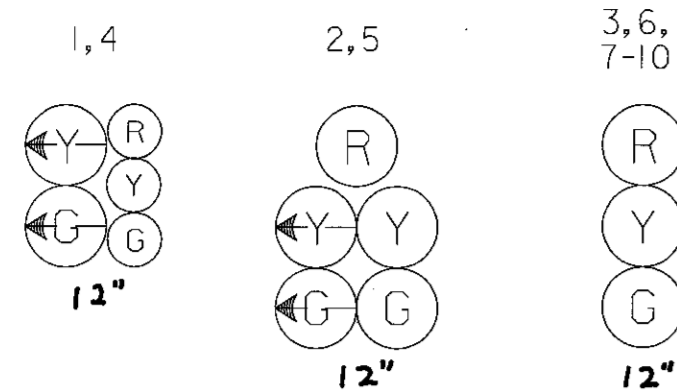


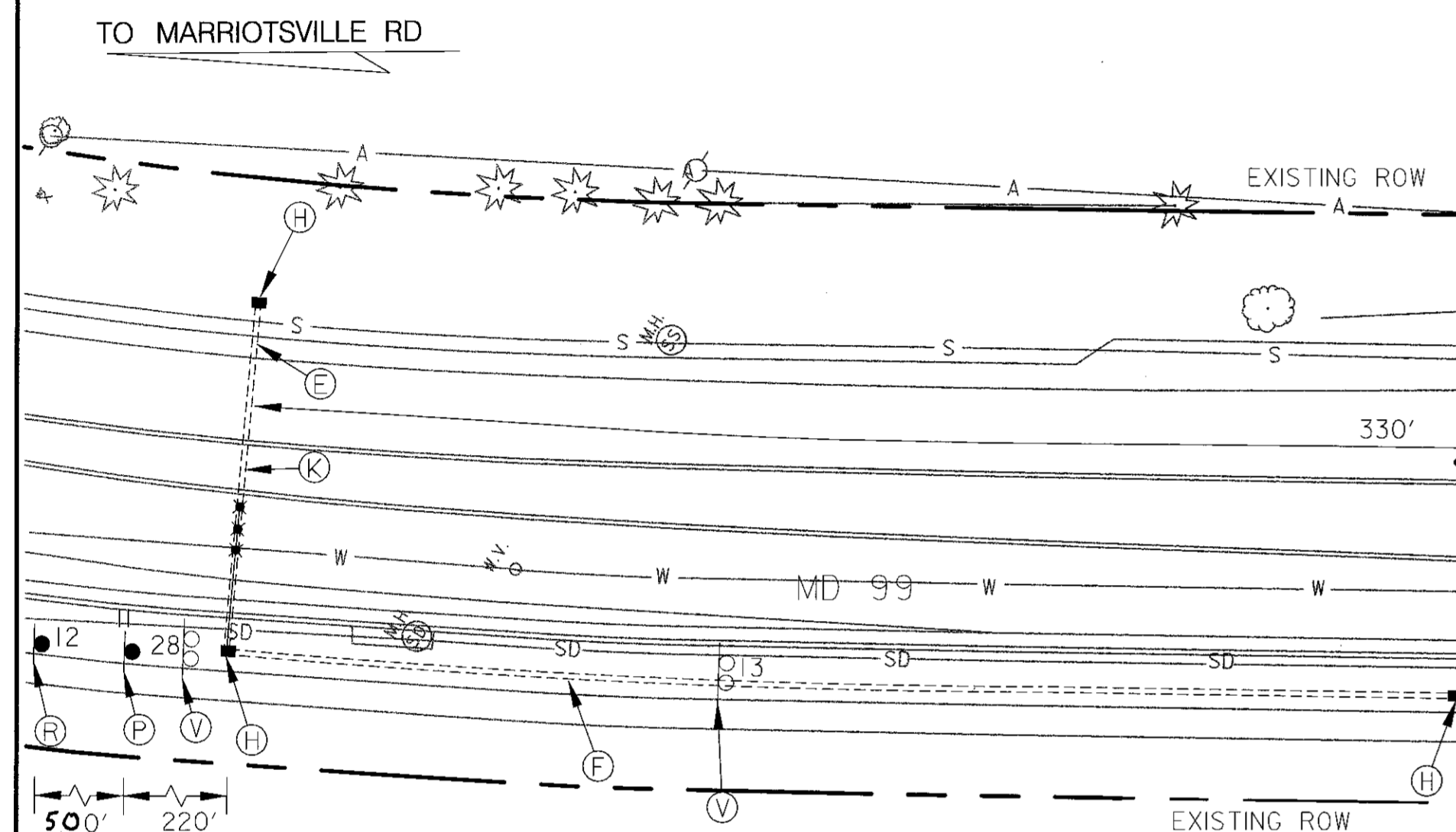
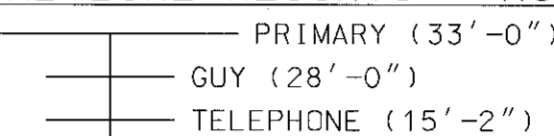
NEMA PHASING



PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.

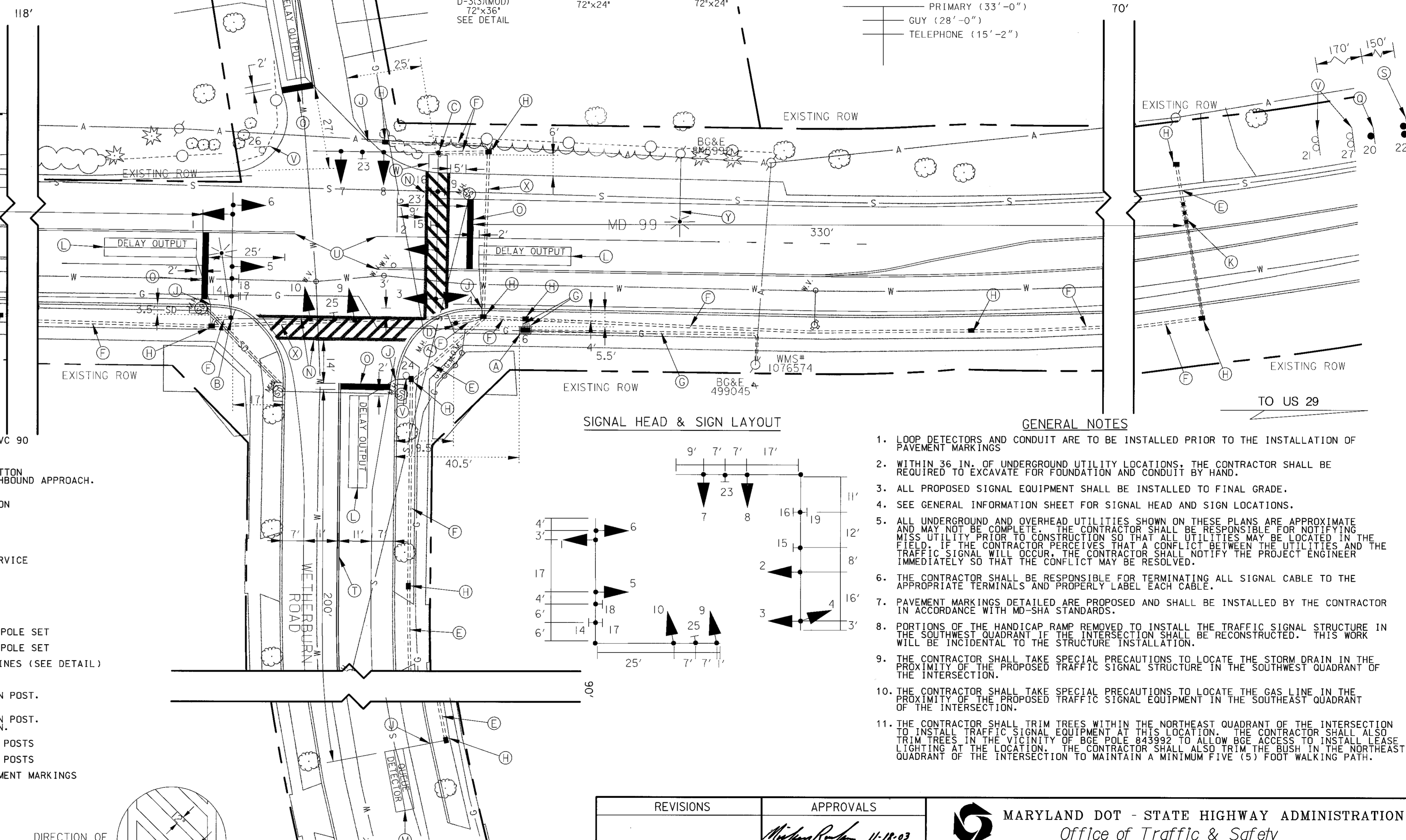
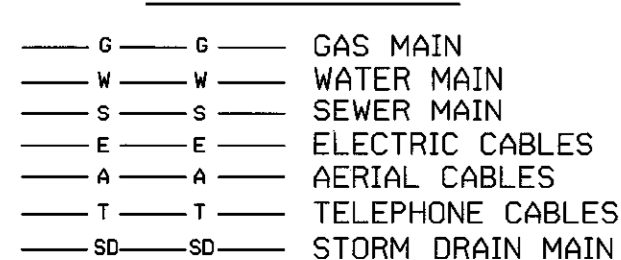
AERIAL LINE HEIGHTS - NORTH SIDE



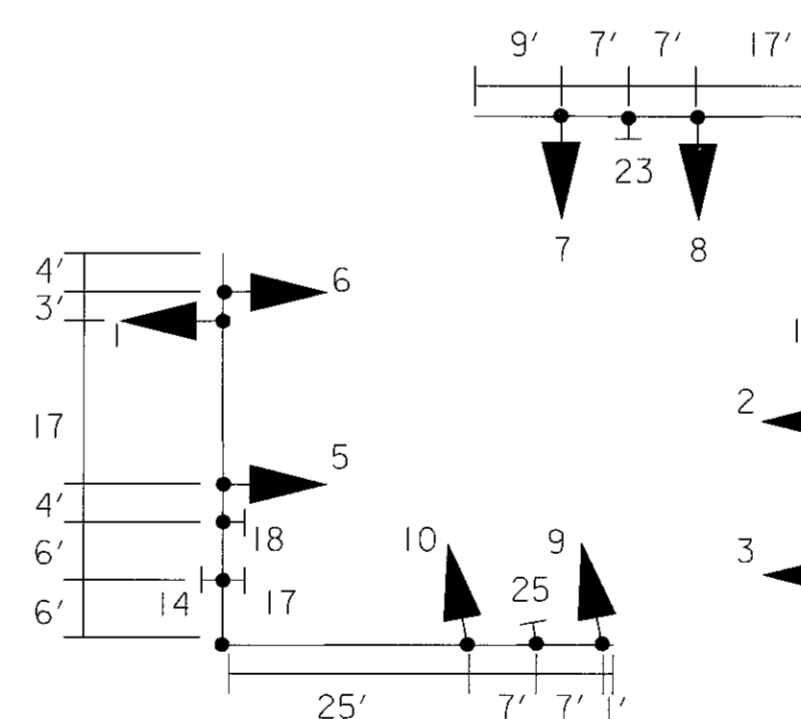
CONSTRUCTION DETAILS

- A. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET, CONTROLLER, AND ELECTRICAL UTILITY EQUIPMENT. WITH ALL NECESSARY EQUIPMENT. (NOTE: 1-3 IN. AND 3-4 IN. 90 DEGREE BENDS.) CONSTRUCT 46 IN. X 28 IN. CONCRETE PAD FOR CABINET ONLY.
- B. INSTALL 27 FT. STEEL POLE WITH TWIN 40 FT./40 FT. MAST ARMS, VEHICLE SIGNAL HEADS, SIGNS, AND A 20-FT LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE WITH PHOTOCELL. (NOTE: 1-3 IN. PVC 90 DEGREE BEND) NOTE: REMOVE AND REPLACE PORTIONS OF EXISTING CONCRETE HANDICAP RAMP TO INSTALL POLE FOUNDATION.
- C. INSTALL 21 FT. STEEL POLE WITH TWIN 40 FT./50 FT. MAST ARMS, VEHICLE SIGNAL HEADS, PUSH BUTTON AND SIGNS. NOTE: INSTALL R10-4(2) PUSH BUTTON SIGN. THE 40 FT. MAST ARM IS FOR THE NORTHBOUND APPROACH. NOTE: TRIM TREES AS NECESSARY TO INSTALL TRAFFIC SIGNAL STRUCTURE.
- D. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE AND PUSH BUTTON. NOTE: INSTALL R10-4(2) PUSH BUTTON SIGN. (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
- E. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
- F. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- G. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR UNDERGROUND POWER SERVICE (TO BE INSTALLED BY BGE. WMS# 1076574)
- H. INSTALL HANDHOLE
- J. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRIC CONDUIT (FOR DETECTOR SLEEVE)
- K. INSTALL NON-INVASIVE MICROLOOP PROBES
- L. INSTALL 6 FT. X 30 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 TURNS) QUADRUPOLE SET
- M. INSTALL 6 FT. X 20 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 TURNS) QUADRUPOLE SET
- N. INSTALL 12 IN. HEAT-APPLIED WHITE THERMOPLASTIC PERMANENT PAVEMENT MARKING FOR CROSSWALK LINES (SEE DETAIL)
- O. INSTALL 24 IN. HEAT-APPLIED WHITE THERMOPLASTIC PERMANENT PAVEMENT MARKING FOR STOP LINES
- P. INSTALL GROUND MOUNTED SIGN 550 WEST FEET FROM INTERSECTION ON ONE 4 IN. X 6 IN. WOOD SIGN POST. SHA DISTRICT FORCES WILL REMOVE SIGN 11 THREE MONTHS AFTER INSTALLATION.
- Q. INSTALL GROUND MOUNTED SIGN 550 EAST FEET FROM INTERSECTION ON ONE 4 IN. X 6 IN. WOOD SIGN POST. SHA DISTRICT FORCES WILL REMOVE FLAGS AND D95-25 (NEW) SIGN THREE MONTHS AFTER INSTALLATION.
- R. INSTALL GROUND MOUNTED SIGN 700 WEST FEET FROM INTERSECTION ON TWO 4 IN. X 6 IN. WOOD SIGN POSTS
- S. INSTALL GROUND MOUNTED SIGN 700 EAST FEET FROM INTERSECTION ON TWO 4 IN. X 6 IN. WOOD SIGN POSTS
- T. INSTALL 100 FT. OF 5 IN. HEAT APPLIED DOUBLE YELLOW PERMANENT PERFORMED THERMOPLASTIC PAVEMENT MARKINGS
- U. REMOVE EXISTING MARKINGS BEYOND STOP LINES
- V. REMOVE EXISTING GROUND MOUNTED SIGN
- W. CONSTRUCT 6 FT. X 6 FT. X 4 IN. THICK CONCRETE PAD FLUSH WITH EXISTING GRADE.
- X. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
- Y. LIGHTING ARM TO BE INSTALLED BY BGE
NOTE: TRIM TREES AS NECESSARY TO ALLOW BGE ACCESS.

UTILITY LEGEND

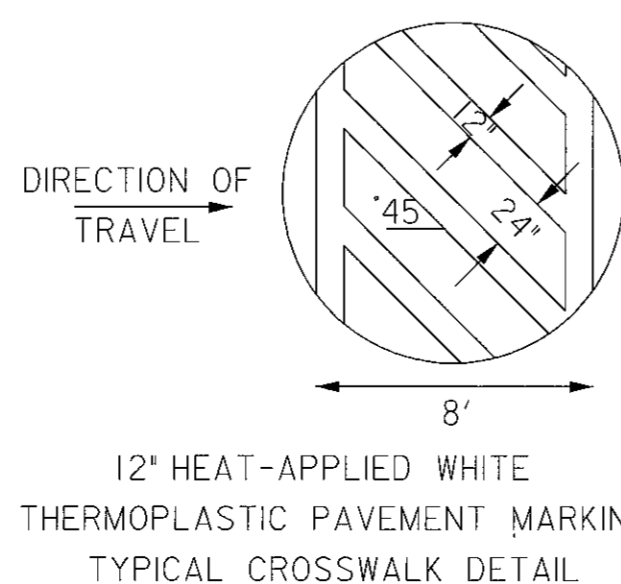


SIGNAL HEAD & SIGN LAYOUT



GENERAL NOTES

1. LOOP DETECTORS AND CONDUIT ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS
2. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
3. ALL PROPOSED SIGNAL EQUIPMENT SHALL BE INSTALLED TO FINAL GRADE.
4. SEE GENERAL INFORMATION SHEET FOR SIGNAL HEAD AND SIGN LOCATIONS.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MO-SHA STANDARDS.
8. PORTIONS OF THE HANDICAP RAMP REMOVED TO INSTALL THE TRAFFIC SIGNAL STRUCTURE IN THE SOUTHWEST QUADRANT IF THE INTERSECTION SHALL BE RECONSTRUCTED. THIS WORK WILL BE INCIDENTAL TO THE STRUCTURE INSTALLATION.
9. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO LOCATE THE STORM DRAIN IN THE PROXIMITY OF THE PROPOSED TRAFFIC SIGNAL STRUCTURE IN THE SOUTHWEST QUADRANT OF THE INTERSECTION.
10. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO LOCATE THE GAS LINE IN THE PROXIMITY OF THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IN THE SOUTHEAST QUADRANT OF THE INTERSECTION.
11. THE CONTRACTOR SHALL TRIM TREES WITHIN THE NORTHEAST QUADRANT OF THE INTERSECTION TO INSTALL TRAFFIC SIGNAL EQUIPMENT AT THIS LOCATION. THE CONTRACTOR SHALL ALSO TRIM TREES IN THE VICINITY OF BGE POLE 843992 TO ALLOW BGE ACCESS TO INSTALL LEASED TRANSFORMER. THE CONTRACTOR SHALL TRIM TREES WITHIN THE SOUTHWEST QUADRANT OF THE INTERSECTION TO MAINTAIN A MINIMUM FIVE (5) FOOT WALKING PATH.



STV Incorporated

engineers / architects / planners / scientists / construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

REVISIONS		APPROVALS	
		<i>Michael R. ...</i>	11-18-03
		TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION	
		<i>[Signature]</i>	11/18/03
		ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	
		<i>Michael R. ...</i>	11-18-03
		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
		<i>[Signature]</i>	11/17/03
		DIRECTOR, TRAFFIC & SAFETY	



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 99 AND WETHERBURN RD./MAPLEWOOD DR.
TRAFFIC SIGNALIZATION PLAN

SHA#: H0695A59/B59/M59

DRAWN BY: MRK

CHECKED BY: MTS

SCALE: 1" = 20'

DATE: OCTOBER 2003

F.A.P. NO.	SEE TITLE SHEET
------------	-----------------

S.H.A. NO. AT3585185

COUNTY: HOWARD

LOG MILE: 13009905.02

TS NO.

TS 4283

T.I.M.S. NO

F727

SHEET NO.

1 OF 2